

## Potassium acetate

Version number: 2.0

### SECTION 1: Identification

#### 1.1 Product identifier

**Identification of the substance** potassium acetate  
**Trade name** **Potassium acetate**  
**CAS number** 127-08-2

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses** Chemicals for various applications

#### 1.3 Details of the supplier of the safety data sheet

Valudor Products, LLC Telephone: +1 (760) 635 8500  
179 Calle Magdalena Suite 100 e-mail: info@valudor.com  
Encinitas, California CA 92024 Website: www.valudor.com  
United States

#### 1.4 Emergency telephone number

**Emergency information** 800-535-5053 (Infotrac)  
As above or nearest toxicological information center.

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

**Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)**

| Classification |                  |            |                           |                  |
|----------------|------------------|------------|---------------------------|------------------|
| Section        | Hazard class     | Category   | Hazard class and category | Hazard statement |
| B.cD           | combustible dust | Comb. Dust | cD                        | OSHA003          |

For full text of abbreviations: see SECTION 16

#### 2.2 Label elements

**Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)**

**Signal word** warning  
**Pictograms** Not required.

**Hazard statements**  
**OSHA003** May form combustible dust concentrations in air.

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## 2.3 Other hazards

### Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                          |                                                |
|--------------------------|------------------------------------------------|
| <b>Name of substance</b> | potassium acetate                              |
| <b>Identifiers</b>       |                                                |
| CAS No                   | 127-08-2                                       |
| <b>Molecular formula</b> | C <sub>2</sub> H <sub>3</sub> K O <sub>2</sub> |
| <b>Molar mass</b>        | 98.14 g/mol                                    |

## SECTION 4: First-aid measures

### 4.1 Description of first-aid measures

#### General notes

Take off immediately all contaminated clothing.

In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following inhalation

Provide fresh air.

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

#### Following skin contact

After contact with skin, wash immediately with plenty of water and soap.

If skin irritation or rash occurs: Get medical advice/attention.

#### Following eye contact

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

#### Following ingestion

Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting.

Get medical advice/attention.

#### Notes for the doctor

None.

### 4.2 Most important symptoms and effects, both acute and delayed

This information is not available.

### 4.3 Indication of any immediate medical attention and special treatment needed

None.

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## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

water, foam, alcohol resistant foam, fire extinguishing powder, coordinate firefighting measures to the fire surroundings

#### Unsuitable extinguishing media

water jet

### 5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products: Section 10.

Deposited combustible dust has considerable explosion potential.

#### Hazardous combustion products

carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), metal oxide smoke (potassium), acetic acid

### 5.3 Advice for firefighters

Non-combustible.

Keep containers cool with water spray.

In case of fire and/or explosion do not breathe fumes.

Coordinate firefighting measures to the fire surroundings.

Do not allow firefighting water to enter drains or water courses.

Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance.

#### Special protective equipment for firefighters

Wear self-contained breathing apparatus

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Remove persons to safety.

Ventilate affected area.

Avoid contact with skin and eyes.

Control of dust.

Avoid breathing dust.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

#### For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

### 6.2 Environmental precautions

Knock down dust with water spray.

Keep away from drains, surface and ground water.

Retain contaminated washing water and dispose of it.

### 6.3 Methods and material for containment and cleaning up

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## **Advice on how to contain a spill**

Covering of drains.

Take up mechanically.

## **Advice on how to clean up a spill**

Take up mechanically.

Collect spillage.

## **Other information relating to spills and releases**

Place in appropriate containers for disposal.

Ventilate affected area.

## **6.4 Reference to other sections**

Hazardous combustion products: see section 5.

Personal protective equipment: see section 8.

Incompatible materials: see section 10.

Disposal considerations: see section 13.

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

#### **Measures to prevent fire as well as aerosol and dust generation**

Use local and general ventilation.

Take precautionary measures against static discharge.

Removal of dust deposits.

Ground/bond container and receiving equipment.

#### **Specific notes/details**

Dust deposits may accumulate on all deposition surfaces in a technical room.

Danger of dust explosion.

#### **Measures to protect the environment**

Avoid release to the environment.

Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point.

#### **Advice on general occupational hygiene**

Do not eat, drink and smoke in work areas.

Remove contaminated clothing and protective equipment before entering eating areas.

Take off contaminated clothing and wash it before reuse.

Do not breathe dust.

Avoid contact with skin and eyes.

Wash hands after use.

Preventive skin protection (barrier creams/ointments) is recommended.

### **7.2 Conditions for safe storage, including any incompatibilities**

#### **Flammability hazards**

None.

#### **Incompatible substances or mixtures**

Incompatible materials: see section 10.

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Store away from oxidizing agents.

## **Protect against external exposure, such as**

heat, humidity

## **Consideration of other advice**

Keep away from food, drink and animal feedingstuffs.

## **Ventilation requirements**

Provision of sufficient ventilation.

## **Specific designs for storage rooms or vessels**

Keep container tightly closed and in a well-ventilated place.

Store in a dry place.

## **Packaging compatibilities**

Keep only in original container.

## **7.3 Specific end use(s)**

No information available.

## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

#### **Occupational exposure limit values (Workplace Exposure Limits)**

No constituent of the product currently has a known exposure limit.

### **8.2 Exposure controls**

#### **Appropriate engineering controls**

Use local and general ventilation.

#### **Individual protection measures (personal protective equipment)**

##### **Eye/face protection**

Wear eye/face protection.

##### **Hand protection**

| <b>Protective gloves</b>                 |                           |                                                 |
|------------------------------------------|---------------------------|-------------------------------------------------|
| <b>Material</b>                          | <b>Material thickness</b> | <b>Breakthrough times of the glove material</b> |
| IIR: isobutene-isoprene (butyl) rubber   | ≥ 0,5 mm                  | >480 minutes (permeation: level 6)              |
| CR: chloroprene (chlorobutadiene) rubber | ≥ 0,5 mm                  | >480 minutes (permeation: level 6)              |
| NBR: acrylonitrile-butadiene rubber      | ≥ 0,35 mm                 | >480 minutes (permeation: level 6)              |

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

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## Body protection

Protective clothing for use against solid particulates.

## Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Particle filter device (DIN EN 143).

## Environmental exposure controls

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

##### Physical state

solid  
(powder)

##### Color

white

##### Odor

odorless

##### Odor threshold

not determined

#### Other safety parameters

##### pH (value)

6.5 – 9 (in aqueous solution: 50 g/l)

##### Melting point/freezing point

292 °C

##### Boiling point or initial boiling point and boiling range

392.4 °C  
(ECHA, calculated)

##### Flash point

not applicable

##### Evaporation rate

not determined

##### Flammability (solid, gas)

non-combustible

##### Explosive limits

not determined

##### Explosion limits of dust clouds

not determined

##### Vapor pressure

0 mmHg at 25 °C  
(ECHA, calculated)

#### Density and/or relative density

##### Density

1.8 g/cm<sup>3</sup> at 20 °C

##### Relative vapour density

not relevant (solid)

#### Solubility(ies)

##### Water solubility

2,530 g/l at 20 °C

#### Partition coefficient

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|                                                                 |                                                                                |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------|
| n-octanol/water (log KOW)                                       | -3.72<br>(ECHA, calculated)                                                    |
| <b>Soil organic carbon/water (log KOC)</b>                      | 0<br>(calculated)<br>(ECHA)                                                    |
| <b>Auto-ignition temperature</b>                                | >410 °C<br>(EU method A.16)<br>(relative self-ignition temperature for solids) |
| <b>Decomposition temperature</b>                                | not relevant                                                                   |
| <b>Viscosity</b>                                                | not relevant<br>(solid)                                                        |
| <b>Explosive properties</b>                                     | none                                                                           |
| <b>Oxidizing properties</b>                                     | none                                                                           |
| <b>Information for relevant hazard classes according to GHS</b> | there is no additional information                                             |
| <b>9.2 Other information</b>                                    | there is no additional information                                             |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Hygroscopic substance.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.  
See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

### 10.4 Conditions to avoid

Protect from moisture.

### 10.5 Incompatible materials

strong oxidizer

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.  
Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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If not otherwise specified the classification is based on:

Animal studies; Evidence from any other toxicity tests; Expert judgment (weight of evidence determination).

## Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

### Acute toxicity

Shall not be classified as acutely toxic.

| Exposure route        | Endpoint | Value         | Species        | Method             | Source | Notes                       |
|-----------------------|----------|---------------|----------------|--------------------|--------|-----------------------------|
| dermal                | LD50     | >20,000 mg/kg | rabbit, female | OECD Guideline 402 | ECHA   | read-across                 |
| oral                  | LD50     | 3,250 mg/kg   | rat, male      | -                  | ECHA   | -                           |
| inhalation: dust/mist | LC50     | >5.6 mg/l/4h  | rat, female    | OECD Guideline 403 | ECHA   | read-across calcium acetate |

### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

(ECHA, OECD Guideline 404)

### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

(ECHA, OECD Guideline 405)

### Respiratory or skin sensitization

#### Skin sensitization

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### Respiratory sensitization

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

(ECHA, OECD Guideline 471)

### Carcinogenicity

#### IARC Monographs

not listed

#### National Toxicology Program (United States)

not listed

#### OSHA Carcinogens

Not listed.

### Reproductive toxicity

Classification could not be established because:

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Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Specific target organ toxicity - single exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Specific target organ toxicity - repeated exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## 11.2 Other information

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity (acute)

Based on available data, the classification criteria are not met.

| Endpoint | Exposure time | Value       | Species                      | Method             | Source |
|----------|---------------|-------------|------------------------------|--------------------|--------|
| LC50     | 96 h          | >992.7 mg/l | zebra fish (danio rerio)     | OECD Guideline 203 | ECHA   |
| EC50     | 48 h          | >919 mg/l   | daphnia magna                | OECD Guideline 202 | ECHA   |
| ErC50    | 72 h          | >1,000 mg/l | algae (Sceletonema costatum) | DIN EN ISO 10253   | ECHA   |

#### Aquatic toxicity (chronic)

Based on available data, the classification criteria are not met.

| Endpoint          | Exposure time | Value      | Species                               | Method           | Source |
|-------------------|---------------|------------|---------------------------------------|------------------|--------|
| EC50              | 16 h          | 7.2 g/l    | activated sludge (Pseudomonas putida) | DIN 38412-8      | ECHA   |
| NOEC              | 72 h          | 1,000 mg/l | algae (Sceletonema costatum)          | DIN EN ISO 10253 | ECHA   |
| growth (EbCx) 10% | 16 h          | 3.5 g/l    | activated sludge (Pseudomonas putida) | DIN 38412-8      | ECHA   |

### 12.2 Persistence and degradability

#### Biodegradation

The substance is readily biodegradable.

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| Process of degradability |                  |      |                 |        |
|--------------------------|------------------|------|-----------------|--------|
| Process                  | Degradation rate | Time | Method          | Source |
| DOC removal              | 99 %             | 28 d | EU method C.4-A | ECHA   |

## Persistence

The substance is not persistent.

### 12.3 Bioaccumulative potential

The substance is not bioaccumulative.

|                           |                       |
|---------------------------|-----------------------|
| n-octanol/water (log KOW) | -3.72<br>(calculated) |
| BCF                       | 3.162<br>(calculated) |

### 12.4 Mobility in soil

The substance is very mobile.

|                                                      |                   |
|------------------------------------------------------|-------------------|
| The Organic Carbon normalised adsorption coefficient | 0<br>(calculated) |
|------------------------------------------------------|-------------------|

### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

### 12.6 Other adverse effects

Data are not available.

## Remarks

None.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packages

Completely emptied packages can be recycled.  
Handle contaminated packages in the same way as the substance itself.

## Remarks

Please consider the relevant national or regional provisions.

## SECTION 14: Transport information

|      |                         |                                      |
|------|-------------------------|--------------------------------------|
| 14.1 | UN number               | not subject to transport regulations |
| 14.2 | UN proper shipping name | -                                    |

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- 14.3 Transport hazard class(es) -
- 14.4 Packing group -
- 14.5 Environmental hazards -
- 14.6 Special precautions for user -
- 14.7 Transport in bulk according to IMO instruments -

## 14.8 Information for each of the UN Model Regulations

**Transport of dangerous goods by road or rail (49 CFR US DOT) Additional information**

Not subject to transport regulations.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### National regulations (United States)

**Toxic Substance Control Act (TSCA)** Substance is listed (ACTIVE)

#### Superfund Amendment and Reauthorization Act (SARA TITLE III )

**The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)**

Not listed

**Specific Toxic Chemical Listings (EPCRA Section 313)**

Not listed

#### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

**List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)**

Not listed

#### Clean Air Act

Not listed

#### Right to Know Hazardous Substance List

**Toxic or Hazardous Substance List (MA-TURA)**

Not listed

**Hazardous Substances List (MN-ERTK)**

Not listed

**Hazardous Substance List (NJ-RTK)**

Not listed

**Hazardous Substance List (Chapter 323) (PA-RTK)**

Not listed

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## Hazardous Substance List (RI-RTK)

Not listed

## California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

Not listed

## Drug precursors, Chemicals designated within the Controlled Substances Act, 21 U.S.C. § 802, paragraphs 34 (list I) and 35 (list II)

Not listed

## SECTION 16: Other information, including date of preparation or last revision

Date of preparation: 2023-03-28

Date of last revision: 2025-07-08.

## Abbreviations and acronyms

| Abbr.           | Descriptions of used abbreviations                                                                                                                                               |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 49 CFR US DOT   | 49 CFR U.S. Department of Transportation                                                                                                                                         |
| BCF             | Bioconcentration factor                                                                                                                                                          |
| CAS             | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)                                                                           |
| DGR             | Dangerous Goods Regulations (see IATA/DGR)                                                                                                                                       |
| EC50            | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| ErC50           | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control           |
| GHS             | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations                                                                        |
| IARC            | International Agency for Research on Cancer                                                                                                                                      |
| IARC Monographs | IARC Monographs on the Evaluation of Carcinogenic Risks to Humans                                                                                                                |
| IATA            | International Air Transport Association                                                                                                                                          |
| IATA/DGR        | Dangerous Goods Regulations (DGR) for the air transport (IATA)                                                                                                                   |
| IMDG            | International Maritime Dangerous Goods Code                                                                                                                                      |
| LC50            | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval                                |
| LD50            | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval                                                 |
| NOEC            | No Observed Effect Concentration                                                                                                                                                 |
| OSHA            | Occupational Safety and Health Administration (United States)                                                                                                                    |
| PBT             | Persistent, Bioaccumulative and Toxic                                                                                                                                            |
| vPvB            | Very Persistent and very Bioaccumulative                                                                                                                                         |

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## Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200 (May 20, 2024 eff. July 19, 2024).  
Transport of dangerous goods by road or rail (49 CFR US DOT).  
International Maritime Dangerous Goods Code (IMDG).  
Dangerous Goods Regulations (DGR) for the air transport (IATA).

## List of relevant phrases (code and full text as stated in section 2 and 3)

| Code    | Text                                             |
|---------|--------------------------------------------------|
| OSHA003 | May form combustible dust concentrations in air. |

## Responsible for the safety data sheet

Chemical Regulatory Compliance Com- Telephone: +1 (630) 410-1660  
pany e-Mail: GHS@crc-us.com  
Jasper, GA Website: www.crc-us.com  
USA

## Disclaimer

This information is based upon the present state of our knowledge.  
This SDS has been compiled and is solely intended for this product.